Xuelun (Sellen) Wei

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SKILL

Programming: Proficient in Java, C; Experience with Python, C++
Web & Data: HTML5, SCC3, JavaScript, JSON, MySQL, NoSQL (MongoDB, DynamoDB), Amazon EC2
Scripts & tools: Eclipse, Git, MAMP, Apache Tomcat, JUnit, JMeter, MatLab, Django, Labview

EDUCATION

Arizona State University, Tempe, Arizona   2013 - 2015

Main Course : Computer Architecture/ Data Structure and Algorithm/ Java Programming
Master of Science and Engineering in Electrical Engineering (MSEE)   **GPA: 3.9 /4.0**

Sichuan University, Chengdu, China   2009 – 2013

Main Course : network communication

Bachelor of Science and Engineering in Electrical Engineering (BSEE)   **GPA: 3.7 /4.0**

PROJECT EXPERIENCE

- **Dashi, A Personalized Restaurant Recommendation Web Service (Java)**
  Dashi, aims to use personalization to improve restaurant search and recommendation based on search history and favorite record. http://sellen.mooo.com/Dashi/
  - Developed an interactive web page (HTML/Javascript) provide 3 main APIs for users to search restaurants, update preference and pushing recommended restaurants.
  - Built a customized web service (Java servlet, REST API) to fetch restaurant data from Yelp API and store user preferences (MySQL/MongoDB).
  - Improved recommendation precision/recall by developing a collaborative filtering algorithm and matched similar restaurants based on categories.
  - Deployed server side to Amazon EC2 which is able to handle 150 queries per second tested by Apache JMeter.

- **LinkItem Recommendation Application**
  LinkItem is a project to provide better item recommendation (Books, Music Instruments, etc) using Amazon's dataset.
  - Extracted and purified features from Amazon dataset and prepared dataset for testing.
  - Designed a MapReduce program in MongoDB to calculate similarity score between users.
  - Designed a collaborative filtering algorithm based on similarity score to improve recommendation precision.

- **Local Weather and Temperature Change Reminder**
  - Developed a web application based on Django (MVC) framework to broadcast notification emails when reminder is triggered.
  - Used Bootstrap to implement frontend design and user registration, email confirmation and login feature. Used MySQL to store user information and reminder trigger criteria.
  - Extracted and filtered weather information from Yahoo Weather API.

WORK EXPERIENCE

- **Design Engineer, Dialog Semiconductor, Inc**   **2015 – Current**
  Dialog Semiconductor is the top power management supplier for Apple/Sumsung/Huawei portable devices.
  - 2+ years' experience as a design engineer, involving in producing critical products in Dialog semiconductor, have experience deal with different teams, smoothly communicate with various teams' members and managers.
  - Provided design structures and implemented, also be responsible to provide test strategy and test bench debug.
  - Trained new graduates with technical skills.